# **EAST Search History**

Ref	Hits	Search Query	DBs	Default	Plurals	Time Stamp
#	nius	Search Query	003	Operator	riulais	Time Stamp
L1	29323	(707/1,10,100,101,102,200,201, 202,203,204).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/09/20 14:06
L2	0	("(guior("graphicaluserinterface")) ").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/09/20 14:07
.L3	113790	(gui or "graphical user interface")	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:08
L4	8701	(transfer or transmit or synchroniz\$6 or cop\$3 ) near database	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:19
L5	53841	metadata or datatype\$1 or meta near data or schema	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ÓN	2007/09/20 14:10
L6	161119	3 or 4 or 5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:10
L7	43295	6 and (cop\$3 or mirror\$3 or transfer\$3) and (server and client)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON TO THE REPORT OF THE PERSON	2007/09/20 14:11
L8	188	6 and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:11

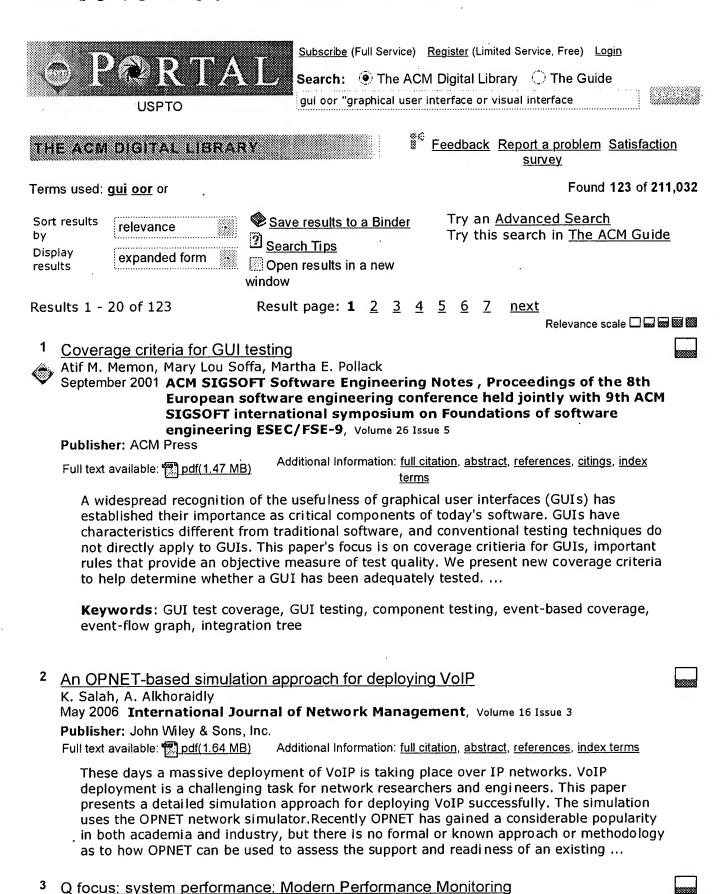
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L9	179	6 and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON 	2007/09/20 14:20
L10	17560893	nd @ad<"20030121"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR.	ON	2007/09/20 14:13
L11	80	9 and @ad<"20030121"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OŘ	ON	2007/09/20 14:13
L12	1724	(transfer or transmit or synchroniz\$6 or cop\$3 ) near database and (gui or "graphical user interface")	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:19
L13	179	6 and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create) and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:20
<b>L14</b>	198	(cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create) and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ÖR	ON	2007/09/20 14:20
L15	41351	1 abd (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create) and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:21

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L17	115	1 and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create) and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:21
L18	115	1 and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near database) and (create) and (cop\$3 or mirror\$3 or transfer\$3) and (server and client) and ((target and source) near (datastore or database)) and (create)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/09/20 14:22

Page 3



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Mark Purdy

Publisher: ACM Press

February 2006 Queue, Volume 4 Issue 1



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1 Coverage criteria for GUI testing

Atif M. Memon, Mary Lou Soffa, Martha E. Pollack

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September 2001 ACM SIGSOFT Software Engineering Notes, Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-9, Volume 26 Issue 5

Publisher: ACM Press

Full text available: pdf(1.47 MB)

 $Additional\ Information:\ \underline{full\ citation},\ \underline{abstract},\ \underline{references},\ \underline{citings},\ \underline{index}$ 

<u>terms</u>

A widespread recognition of the usefulness of graphical user interfaces (GUIs) has established their importance as critical components of today's software. GUIs have characteristics different from traditional software, and conventional testing techniques do not directly apply to GUIs. This paper's focus is on coverage critieria for GUIs, important rules that provide an objective measure of test quality. We present new coverage criteria to help determine whether a GUI has been adequately tested. ...

**Keywords:** GUI test coverage, GUI testing, component testing, event-based coverage, event-flow graph, integration tree

An OPNET-based simulation approach for deploying VoIP

K. Salah, A. Alkhoraidly

May 2006 International Journal of Network Management, Volume 16 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, index terms

These days a massive deployment of VoIP is taking place over IP networks. VoIP deployment is a challenging task for network researchers and engineers. This paper presents a detailed simulation approach for deploying VoIP successfully. The simulation uses the OPNET network simulator. Recently OPNET has gained a considerable popularity in both academia and industry, but there is no formal or known approach or methodology as to how OPNET can be used to assess the support and readiness of an existing ...

<sup>3</sup> Q focus: system performance: Modern Performance Monitoring

Mark Purdy

February 2006 Queue, Volume 4 Issue 1

Publisher: ACM Press



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Using GUI Run-Time State as Feedback to Generate Test Cases

Xun Yuan, Atif M. Memon

May 2007 Proceedings of the 29th International Conference on Software **Engineering ICSE '07** 

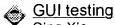
Publisher: IEEE Computer Society

Full text available: Republic Additional Information: full citation, abstract, index terms

This paper presents a new automated model -driven technique to generate test cases by using feedback from the execution of a .seed test suite. on an application under test (AUT). The test cases in the seed suite are designed to be generated automatically and executed very quickly. During their execution, feedback obtained from the AUT's run-time state is used to generate new, .improved. test cases. The new test cases subsequently become part of the seed suite. This .anytime technique. continues i ...

2 Doctoral symposium: posters: Developing cost-effective model-based techniques for





Oina Xie

May 2006 Proceeding of the 28th international conference on Software engineering ICSE '06

Publisher: ACM Press

Full text available: pdf(116.69 KB) Additional Information: full citation, abstract, references, index terms

Most of today's software users interact with the software through a graphical user interface (GUI). While GUIs have become ubiquitous, testing of GUIs has remained until recently, a neglected research area. Existing GUI testing techniques are extremely resource intensive primarily because GUIs have very large input spaces. This research proposes to advance the state-of-the-art in GUI testing by empirically studying GUI faults, interactions between GUI events, why certain event interactions lead ...

3 Designing and comparing automated test oracles for GUI-based software



applications Qing Xie, Atif M. Memon

February 2007 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 16 Issue 1

Publisher: ACM Press

Full text available: Pdf(742.55 KB) Additional Information: full citation, abstract, references, index terms

Test designers widely believe that the overall effectiveness and cost of software testing depends largely on the type and number of test cases executed on the software. This



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Best practices: Integration of a 2D legacy GIS, legacy simulations, and legacy



databases into a 3D geographic simulation

Makoto Ohigashi, Zhen-Sheng Guo, Yuzuru Tanaka

October 2006 Proceedings of the 24th annual conference on Design of communication SIGDOC '06

Publisher: ACM Press

Full text available: Top pdf(1.28 MB)

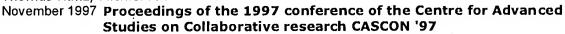
Additional Information: full citation, abstract, references, index terms

Legacy application systems have been widely used by user communities, and by individual users. They are currently providing a variety of functions required by system development requirements. For the development of a new 3D system using such legacy systems, we need both (i) the migration of legacy systems into a new 3D system environment, and (ii) interoperations among these systems. This paper proposes a framework for the ad hoc integration of a 2D legacy GIS, legacy simulators, and legacy data ...

Keywords: 3D geographic simulation, legacy system integration, meme media

Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren



Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of no n-trivial commun ...

3 The Dublo Architecture Pattern for Smooth Migration of Business Information Systems: An Experience Report



Wilhelm Hasselbring, Ralf Reussner, Holger Jaekel, Jurgen Schlegelmilch, Thorsten Teschke, Stefan Krieghoff

May 2004 Proceedings of the 26th International Conference on Software



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Efficient estimation of joint queries from multiple OLAP databases

window



Elaheh Pourabbas, Arie Shoshani

March 2007 ACM Transactions on Database Systems (TODS), Volume 32 Issue 1

Publisher: ACM Press

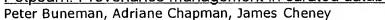
Full text available: pdf(816.10 KB)

Additional Information: full citation, appendices and supplements, abstract, references, index terms

Given an OLAP query expressed over multiple source OLAP databases, we study the problem of estimating the resulting OLAP target database. The problem arises when it is not possible to derive the result from a single database. The method we use is linear indirect estimation, commonly used for statistical estimation. We examine two obvious computational methods for computing such a target database, called the full crossproduct (F) and preaggregation (P) methods. We study the accu ...

**Keywords:** OLAP, multiple summary databases, query estimation

Potpourri: Provenance management in curated databases



June 2006 Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06

Publisher: ACM Press

Full text available: pdf(191.13 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Curated databases in bioinformatics and other disciplines are the result of a great deal of manual annotation, correction and transfer of data from other sources. Provenance information concerning the creation, attribution, or version history of such data is crucial for assessing its integrity and scientific value. General purpose database systems provide little support for tracking provenance, especially when data moves among databases. This paper investigates general-purpose techniques for rec ...

Keywords: curation, provenance, storage

3 Transformation of data traversals and operations in application programs to account



for semantic changes of databases Stanley Y. W. Su, Herman Lam, Der Her Lo



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Keynote talks: Model management 2.0: manipulating richer mappings

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Philip A. Bernstein, Sergey Melnik

June 2007 Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07

Publisher: ACM Press

Full text available: pdf(556.05 KB) Additional Information: full citation, abstract, references, index terms

Model management is a generic approach to solving problems of data programmability where precisely engineered mappings are required. Applications include data warehousing, e-commerce, object-to-relational wrappers, enterprise information integration, database portals, and report generators. The goal is to develop a model management engine that can support tools for all of these applications. The engine supports operations to match schemas, compose mappings, diff schemas, merge schemas, transl ...

**Keywords:** data exchange, data integration, data translation, engineered mapping, model management, schema evolution, schema mapping, schema matching

2 Composition of mappings given by embedded dependencies

Alan Nash, Philip A. Bernstein, Sergey Melnik

March 2007 ACM Transactions on Database Systems (TODS), Volume 32 Issue 1

**Publisher:** ACM Press

Full text available: The pdf(340.64 KB) Additional Information: full citation, abstract, references, index terms

Composition of mappings between schemas is essential to support schema evolution, data exchange, data integration, and other data management tasks. In many applications, mappings are given by embedded dependencies. In this article, we study the issues involved in composing such mappings.

Our algorithms and results extend those of Fagin et al. [2004], who studied the composition of mappings given by several kinds of constraints. In particular, they proved that full source-to-target tupl ...

Keywords: Metadata management, database theory

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Transformation of data traversals and operations in application programs to account



for semantic changes of databases Stanley Y. W. Su, Herman Lam, Der Her Lo

June 1981 ACM Transactions on Database Systems (TODS), Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(3.00 MB)

Additional Information: full citation, abstract, references, citings, index

This paper addresses the problem of application program conversion to account for changes in database semantics that result in changes in the schema and database contents. With the observation that the existing data models can be viewed as alternative ways of modeling the same database semantics, a methodology of application program analysis and conversion based on an existing-DBMS-model-and schema-independent representation of both the database and programs is presented. In this methodolog ...

Keywords: access pattern, application program conversion, database changes, semantic data model, transformation rules

Keynote talks: Model management 2.0: manipulating richer mappings



Philip A. Bernstein, Sergey Melnik

June 2007 Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07

Publisher: ACM Press

Full text available: Ppdf(556.05 KB) Additional Information: full citation, abstract, references, index terms

Model management is a generic approach to solving problems of data programmability where precisely engineered mappings are required. Applications include data warehousing, e-commerce, object-to-relational wrappers, enterprise information integration, database portals, and report generators. The goal is to develop a model management engine that can support tools for all of these applications. The engine supports operations to match schemas, compose mappings, diff schemas, merge schemas, transl ...

Keywords: data exchange, data integration, data translation, engineered mapping, model management, schema evolution, schema mapping, schema matching

3 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB)

Additional Information: full citation, abstract, references, cited by, index

terms, review

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

4 Data cleaning and integration: Compiling mappings to bridge applications and



databases

Sergey Melnik, Atul Adya, Philip A. Bernstein

June 2007 Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07

Publisher: ACM Press

Full text available: pdf(768.11 KB) Additional Information: full citation, abstract, references, index terms

Translating data and data access operations between applications and databases is a longstanding data management problem. We present a novel approach to this problem, in which the relationship between the application data and the persistent storage is specified using a declarative mapping, which is compiled into bidirectional views that drive the data transformation engine. Expressing the application model as a view on the database is used to answer queries, while viewing the database in term ...

Keywords: mapping, query rewriting, updateable views

5 Potpourri: Provenance management in curated databases



Peter Buneman, Adriane Chapman, James Cheney

June 2006 Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06

Publisher: ACM Press

Full text available: pdf(191.13 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Curated databases in bioinformatics and other disciplines are the result of a great deal of manual annotation, correction and transfer of data from other sources. Provenance information concerning the creation, attribution, or version history of such data is crucial for assessing its integrity and scientific value. General purpose database systems provide little support for tracking provenance; especially when data moves among databases. This paper investigates general-purpose techniques for rec ...

**Keywords:** curation, provenance, storage

6 A meta model and an infrastructure for the non-transparent replication of object



databases

Werner Dreyer, Klaus R. Dittrich

November 2000 Proceedings of the ninth international conference on Information and knowledge management CIKM '00

Publisher: ACM Press

Full text available: 智力(179.36 KB) Additional Information: full citation, references, index terms

Keywords: object databases, object replication, replication meta models

Middleware object query processing with deferred updates and autonomous sources



Jerry Kiernan, Michael J. Carey

October 2000 ACM SIGPLAN Notices, Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '00, Volume 35 Issue 10

Publisher: ACM Press

Full text available: pdf(214,74 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a query processing algorithm called DECAF for use in middleware object query systems that are based on the use of an object cache. The DECAF algorithm is designed to work correctly even in the presence of updates to the underlying databases that don't go through the object cache (i.e., even for autonomous data sources that can be updated through legacy applications that do not perform their updates through the middleware object layer). DECAF's query results are consistent wit ...

Keywords: DBMS, cache, middleware, object-oriented, query

Towards efficient and scalable mediation: the AURORA approach



November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97

Publisher: IBM Press

Full text available: pdf(344.59 KB) Additional Information: full citation, abstract, references, index terms

We develop a 2-tier, plug-and-play mediation model for accessing a large number of heterogeneous data sources. This model defines a divide-and-conquer approach towards information integration. It is more suitable for applications such as electronic commerce than existing models. We also develop algebras that manipulate heterogeneous data, the mediation enabling algebras, that provide new techniques for efficient query processing in large-scale middleware. This paper presents the mediation ...

SilkRoute: A framework for publishing relational data in XML



Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Tan December 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 4

Publisher: ACM Press

10

Full text available: pdf(687.91 KB)

Additional Information: full citation, abstract, references, citings, index terms

XML is the "lingua franca" for data exchange between interenterprise applications. In this work, we describe SilkRoute, a framework for publishing relational data in XML. In SilkRoute, relational data is published in three steps: the relational tables are presented to the database administrator in a canonical XML view; the database administrator defines in the XQuery query language a public, virtual XML view over the canonical XML view; and an application formulates an XQuery query over the publ ...

Keywords: XML, XML storage systems, XQuery

The Clio project: managing heterogeneity





Renée J. Miller, Mauricio A. Hernández, Laura M. Haas, Lingling Yan, C. T. Howard Ho, Ronald 👺 Fagin, Lucian Popa

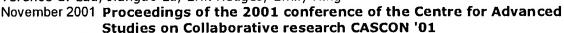
March 2001 ACM SIGMOD Record, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(628.77 KB) Additional Information: full citation, abstract, citings, index terms

Clio is a system for managing and facilitating the complex tasks of heterogeneous data transformation and integration. In Clio, we have collected together a powerful set of data management techniques that have proven invaluable in tackling these difficult problems. In this paper, we present the underlying themes of our approach and present a brief case study.

11 Migrating E-commerce database applications to an enterprise Java environment Terence C. Lau, Jianguo Lu, Erik Hedges, Emily Xing



Publisher: IBM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(572.66 KB)

As technology evolves over time, a common problem is the migration of software applications from one technology base to another. This paper is a practical experience report based on IBM Net.Commerce to WebSphere Commerce Suite (WCS) migration. It identifies the problems and issues in the migration of applications using traditional database access (SQL) to applications using the Enterprise Java Bean (EJB) programming model, and presents a practical methodology in facilitating such migration. It a ...

Keywords: E-commerce, JSP, Net.data, SQL, database re-engineering, enterprise Javabean, migration, relational-object mapping

12 Schema translation using structural transformation

Rateb Abu-Hamdeh, James R. Cordy, Patrick Martin

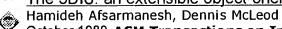
October 1994 Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research CASCON '94

Publisher: IBM Press

Full text available: <u>pdf(196.83 KB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper describes how structural transformation can be applied to the problem of translating schemas expressed in one data model into equivalent schemas expressed in another data model. We explain our approach to the problem which involves translating a schema in the source data model into a set of facts in a knowledge base and from there into a schema in the target data model. We present an example transformation in detail and outline how one can analyze the information capacity preserving p ...

13 The 3DIS: an extensible object-oriented information management environment



October 1989 ACM Transactions on Information Systems (TOIS), Volume 7 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.79 MB) terms, review

The 3-Dimensional Information Space (3DIS) is an extensible object-oriented framework for information management. It is specifically oriented toward supporting the database requirements for data-intensive information system applications in which (1) information objects of various levels of abstraction and modalities must be accommodated, (2) descriptive and structural information (metadata) is rich and dynamic, and (3) users who



are not database experts must be able to design, manipulate, a ...

# 14 Customizing IDL mappings and ORB protocols

Girish Welling, Maximilian Ott

April 2000 IFIP/ACM International Conference on Distributed systems platforms
Middleware '00

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(293.12 KB) Additional Information: full citation, abstract, references, citings

Current mappings of IDL to implementation languages such as C++ or Java use CORBA specific data-types, which makes it imperative for an object implementation to be CORBA-compliant. While being completely CORBA-compliant ensures portability and interoperability, several classes of enterprise applications may only require interoperability with other CORBA applications. Other applications may be constrained by such factors as a large existing code-base or a widely used communicatio ...

# 15 Modular object-oriented programming with units and mixins

Robert Bruce Findler, Matthew Flatt

September 1998 ACM SIGPLAN Notices, Proceedings of the third ACM SIGPLAN international conference on Functional programming ICFP '98, Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(1.31 MB)

Additional Information: full citation, abstract, references, citings, index terms

Module and class systems have evolved to meet the demand for reuseable software components. Considerable effort has been invested in developing new module and class systems, and in demonstrating how each promotes code reuse. However, relatively little has been said about the interaction of these constructs, and how using modules and classes *together* can improve programs. In this paper, we demonstrate the synergy of a particular form of modules and classes---called units and mixins, respec ...

# 16 PIROL: a case study for multidimensional separation of concerns in software

engineering environments

Stephan Herrmann, Mira Mezini

October 2000 ACM SIGPLAN Notices, Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '00, Volume 35 Issue 10

Publisher: ACM Press

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In this paper, we present our experience with applying multidimensional separation of concerns to a software engineering environment. By comparing two different designs of our system, we show the importance of separating integration issues from the implementation of the individual concerns. We present a model in which integration issues are encapsulated into rst--class connector objects and indicate how this facilitates the understandability, maintenance and evolution of the system. We identify ...

**Keywords:** component integration, domain—specific language, separation of concerns, software engineering environment

17 On type systems for object-oriented database programming languages

Yuri Leontiev, M. Tamer Özsu, Duane Szafron

December 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 4

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The concept of an object-oriented database programming language (OODBPL) is appealing because it has the potential of combining the advantages of object orientation and database programming to yield a powerful and universal programming language design. A uniform and consistent combination of object orientation and database programming, however, is not straightforward. Since one of the main components of an object-oriented programming language is its type system, one of the first problems that

Keywords: OODB, OODBPL, object-oriented database programming language, type checking, typing

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D. Sriram, R. Joobbani

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Publisher: ACM Press

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Zahir Moosa, Nick Filer, Mike Brown, J. Heaton, J. Pye

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